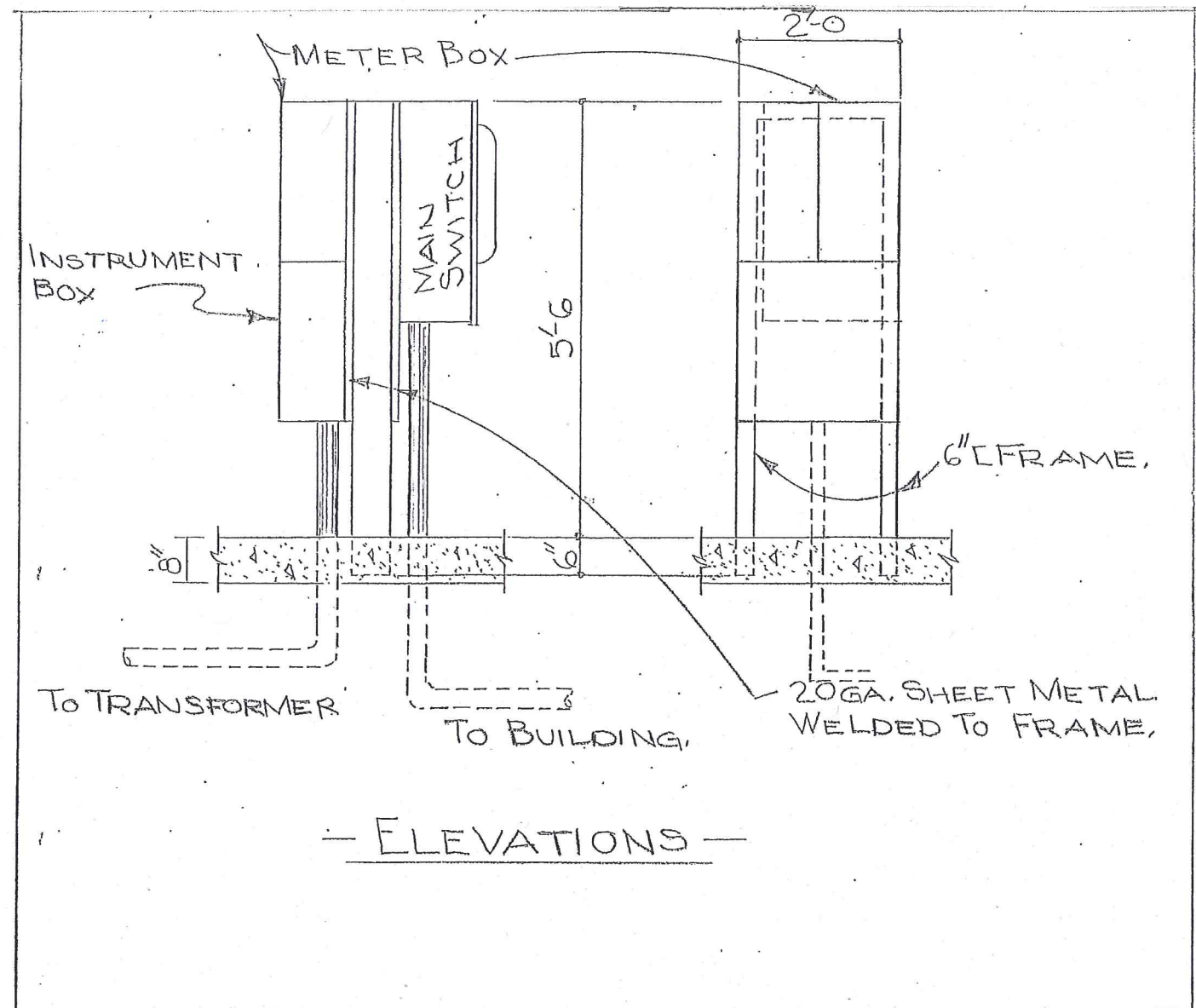


# NEW 200 AMPS ELECTRICAL SERVICE TO THE BRINE BUILDING



## EXISTING METERING ARRANGEMENT

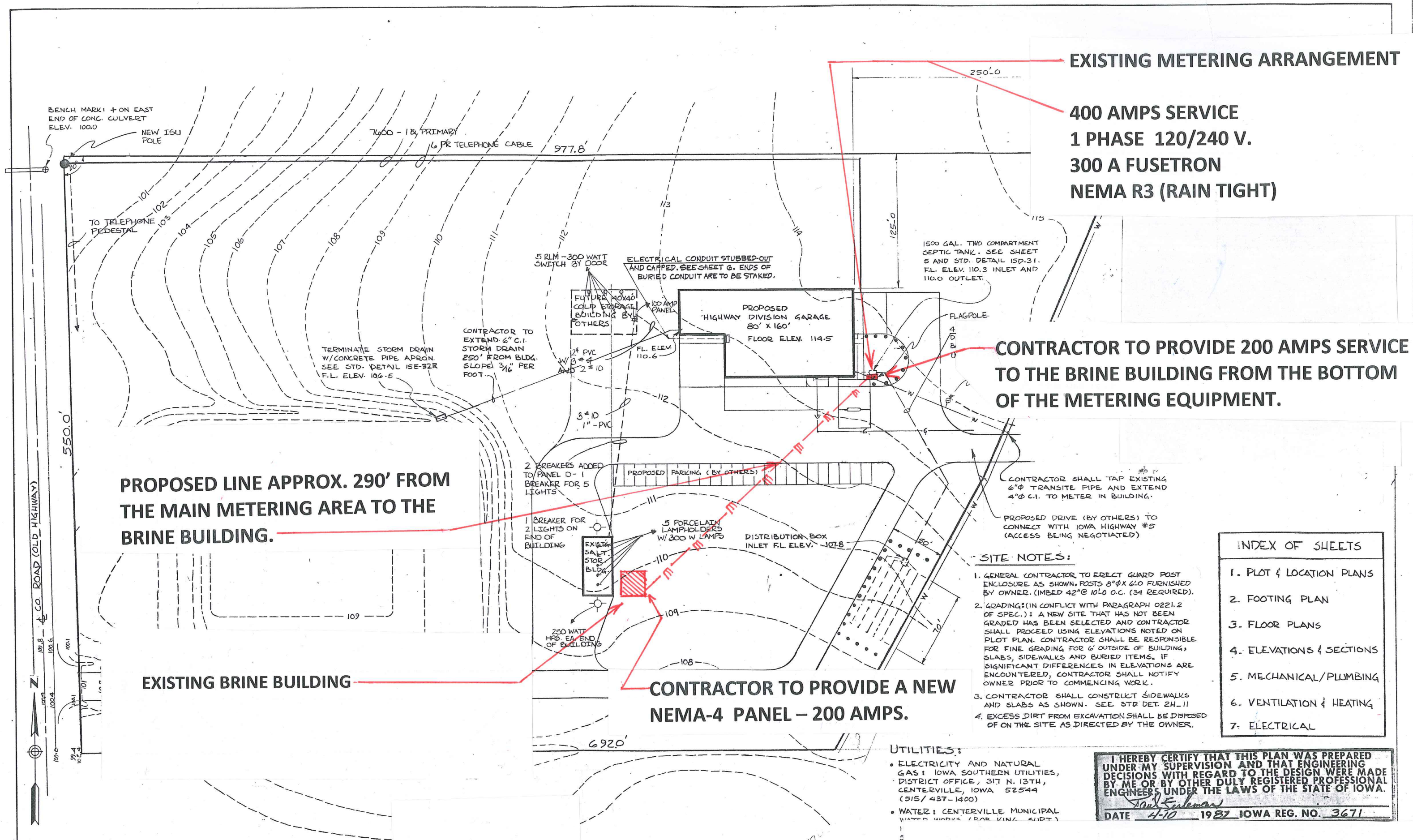
400 AMPS SERVICE  
1 PHASE 120/240 V.  
300 A- FUSETRON  
NEMA R3 (RAIN TIGHT)

## GENERAL NOTES:

1. PERFORM ALL SITE WORK IN ACCORDANCE WITH THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, AS AMENDED TO DATE
2. THE LOCATION OF ALL AERIAL AND UNDER GROUND UTILITY LINES ARE APPROXIMATE OR MAY NOT BE INDICATED IN THESE PLANS. UNDERGROUND FACILITIES, WHETHER INDICATED OR NOT, WILL BE LOCATED AND FLAGGED BY THE UTILITIES AT THE REQUEST OF THE CONTRACTOR. NO EXCAVATION WILL BE PERMITTED IN THE AREA UNTIL ALL SUCH UNDER GROUND UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITIES
3. CALL FOR EXISTING UTILITY LOCATION STAKES A MINIMUM OF 48 HOURS PRIOR TO DIGGING
4. HAUL ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS OFF-SITE AND DISPOSE OF PROPERLY
5. FURNISH AND MAINTAIN ALL NECESSARY BARRICADES, WARNING SIGNS, LIGHTS AND FLAGMEN AS NECESSARY FOR CONSTRUCTION OPERATIONS. FOLLOW IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS
6. PROTECT BY WHATEVER MEANS REQUIRED ALL FENCES, SIGNS, STRUCTURES, UTILITIES, STREETS, BUSHES, TREES, ETC. WHICH ARE NOT DESIGNED FOR REMOVAL; OR ARE OUTSIDE THE LIMITS OF CONSTRUCTION

DOT- MAINTENANCE GARAGE AT CENTERVILLE  
23619 IOWA 5  
CENTERVILLE, IA 52544





**SITE PLAN**

**DOT MAINT. GARAGE AT CENTERVILLE, IA**



PANEL 6 (BRINE BUILDING)									
SHORT CIRCUIT RATING: 22,000 AMP			FED FROM MDP (LOCATED IN MAIN BUILDING)			MAIN BREAKER: 200 AMP 208/120 VOLTS SINGLE PHASE, 3 WIRE			
DISCRIPTION	PHASE WRES, GND CONDUIT SIZE	LOAD (VA)	BKR	P H	BKR	LOAD (VA)	PHASE WRES, GND CONDUIT SIZE	DISCRIPTION	
1 RH-12	(2)-#12, 3/4"	1000	1P-20A	A	2P-50A GF	6400	(2)-#8, #8, 3/4"	BRINE MAKER	2
3 GHD	(2)-#12, #12, 3/4"	1200	1P-20A	B					4
5 EF-8 1 HD	(2)-#12, #12, 3/4"	1200	1P-20A	C	2P-50A GF	6400	(2)-#8, #8, 3/4"	LOAD OUT PUMP 1	6
7 RECEPT	(2)-#12, #12, 3/4"	120	1P-20A GF	A					8
9 RECEPT	(2)-#12, #12, 3/4"	900	1P-20A GF	B					10
11 LIGHTING	(2)-#12, #12, 3/4"	500	1P-20A	C	2P-50A GF	6400	(2)-#8, #8, 3/4"	LOAD OUT PUMP 2	12
13 FAN RECEPT	(2) #12, #12, 3/4"	360	1P-20A	A	2P-50A GF	6400	(2)-#8, #8, 3/4"	LOAD OUT PUMP 3	14
15 SPARE	-	-	1P-20A	B					16
17 SPARE	-	-	1P-20A	C					18
19 SPARE	-	-	1P-20A	A	2P-50A GF	6400	(2)-#8, #8, 3/4"	FUTURE PUMP	20
21 SPARE	-	-	1P-20A	B	1P-20A				22
23 SPARE	-	-	1P-20A	C	1P-20A				24
25				A					26
27 SPD	(4)-#6, #6, 1-1/4"	NA	3P-60A	B					28
29				C					30

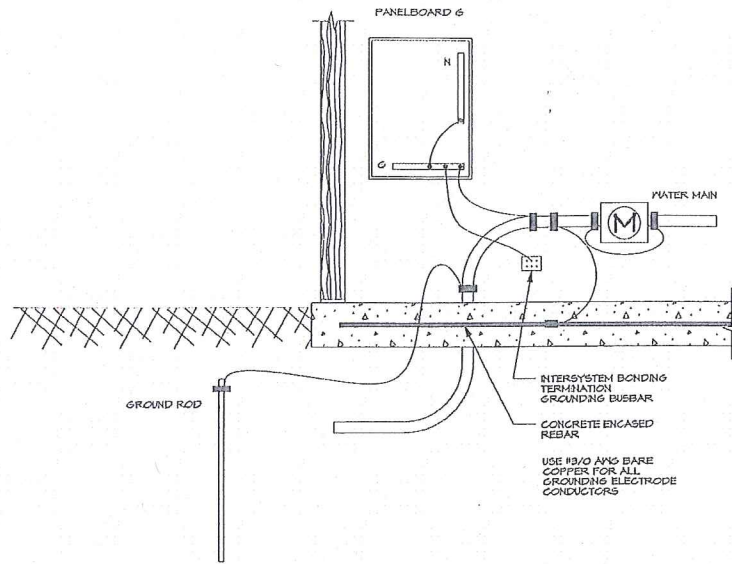
LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER & MODEL NUMBER	NOMINAL DIMENSIONS	LAMPS	VOLT	DRIVER	POWER
F1	RAZZ RIS-A-LITE FFFHL-8-4-55	100"L X 6.75" DIA	4000K 12,500 LM	120-277	ELECTRONIC DRIVER	144W
F2	LITHONIA INST LED-2-10A100/40K SR2-NVGLT-FE-CBLXD	9-1/8" X 14-1/4" X 11-3/8"D	4000K 4000 LM	120-277	ELECTRONIC DRIVER	47W

GENERAL NOTES

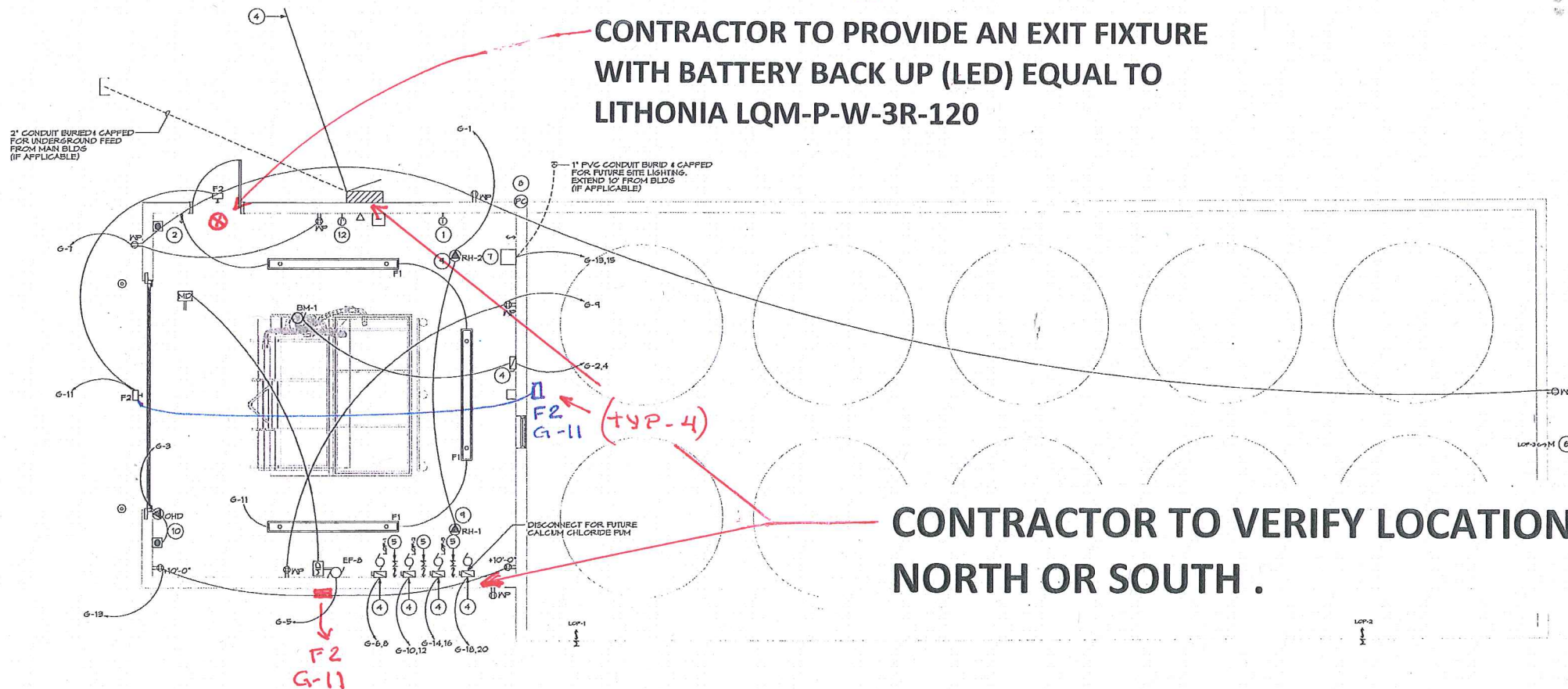
1. ELECTRICAL ENTITIES DRAWN WITH THIS LINETYPE ( ) INDICATES EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

2. ELECTRICAL ENTITIES DRAWN WITH THIS LINETYPE ( ) INDICATES NEW TO REMAIN UNLESS OTHERWISE NOTED.

3. ALL WORK REQUIRING THE SHUTDOWN OF SITE UTILITIES MUST BE COORDINATED WITH THE OWNER 12 HOURS IN ADVANCE



BRINE BUILDING  
GROUNDING ELECTRODE SYSTEM  
SCALE: N.T.S.



## BRINE BUILDING



### NOTES

1. LINE VOLTAGE THERMOSTAT FOR RADIANT HEATERS, SIMILAR AND EQUAL TO FECO TFIIS-G01 WITH NEMA 4X ENCLOSURE AND STAINLESS STEEL SENSING ELEMENTS FOR HOT AND CORROSIVE ENVIRONMENT.
2. NEMA 4X ENCLOSURE WITH PUSH BUTTON AND TIMER RELAY (SIMILAR AND EQUAL TO SQUARE D 950JCK2R120 WITH CLASS B501 SOCKET) FOR 2-HOUR DELAY OFF FUNCTION. CIRCUIT TO MOTOR OPERATED DAMPERS (TVO) AND EXHAUST FAN. LOCATE PUSH BUTTON ADJACENT TO LIGHT SWITCH.
3. PANEL BOARD 6, REFERENCE GROUNDING AND BONDING DETAIL, PROVIDE TYPE 2 SPD IN NEMA 4X CABINET, LOCATE PUSH BUTTON ADJACENT TO LIGHT SWITCH.
4. FUSED DISCONNECT SWITCH: 208VAC, 1-PHASE, 2-WIRE, NEMA 4X, 60A FUSED AT BSA, PROVIDE 3/4\"/>